



Sargent & Lundy

Analytical Services for Distribution System Operations

Sargent & Lundy offers numerous analytical support capabilities for all phases of distribution system operation and planning. Our staff has the expertise to perform traditional distribution system planning and to incorporate a host of new technologies into the distribution system, such as distributed generation, energy storage, volt/var optimization, distribution automation, and microgrids. Our services include:

AREAS OF EXPERTISE

Distribution Planning
Protective Relaying
Model Development
Distributed Energy Resource Impact Studies
Volt/Var Optimization Studies
Distribution Automation
Power Quality

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Sargent & Lundy is a full-service engineering and consulting firm dedicated exclusively to electric power and energy-intensive clients, with experienced engineers, designers, and support professionals working on power projects worldwide. Sargent & Lundy's history and extensive design experience in the power industry provide an invaluable perspective to support its clients in the assessment, development, financing, and implementation of power generation and transmission projects.

Distribution Planning Studies

These studies are performed in support of distribution planning and distribution system upgrade projects:

- Load-flow/contingency analysis
- Short-circuit analysis
- Protection coordination studies
- Capacitor bank and regulator bank placement studies for volt/var optimization
- Feeder reliability studies and distribution automation recloser/switch placement studies
- Arc flash analysis
- System upgrade economic evaluation

Distributed Energy Resource Integration Studies

We offer a full range of interconnection study services, including the following:

- Distributed energy resource interconnection studies
- Distribution feeder hosting capacity studies
- Load-flow/contingency analysis
- Short-circuit analysis
- Protection coordination studies

Root-Cause Analysis

We can determine the root cause following improper operation of system equipment and/or damage through:

- Breaker failure analysis
- Ferroresonance analysis
- Harmonics and power quality studies
- Power quality meter data analysis